

Please type a plus sign (+) inside this box

PTO/SB/05 (03-01)  
Approved for use through 10/31/2002. OMB 0651-0032U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE  
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.UTILITY  
PATENT APPLICATION  
TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No.	8071-50 (OPP030570US)
First Inventor	Hyo-Hak NAM
Title	LIQUID CRYSTAL DISPLAY .....
Express Mail Label No.	EV 413369400US

## APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

1.  Fee Transmittal Form (e.g., PTO/SB/17)  
(Submit an original and a duplicate for fee processing)

2.  Applicant claims small entity status.  
See 37 CFR 1.27.

3.  Specification [Total Pages 32]   
(preferred arrangement set forth below)  
- Descriptive title of the invention  
- Cross Reference to Related Applications  
- Statement Regarding Fed sponsored R & D  
- Reference to sequence listing, a table, or a computer program listing appendix  
- Background of the Invention  
- Brief Summary of the Invention  
- Brief Description of the Drawings (if filed)  
- Detailed Description  
- Claim(s)  
- Abstract of the Disclosure

4.  Drawing(s) (35 U.S.C. 113) [ Total Sheets 19 ]

5. Oath or Declaration [ Total Pages   ]  
a.  Newly executed (original or copy)  
b.  Copy from a prior application (37 CFR 1.63 (d))  
( for continuation/divisional with Box 18 completed)  
i.  **DELETION OF INVENTOR(S)**  
Signed statement attached deleting inventor(s)  
named in the prior application, see 37 CFR  
1.63(d)(2) and 1.33(b).

6.  Application Data Sheet. See 37 CFR 1.76

ADDRESS TO: Assistant Commissioner for Patents  
Box Patent Application  
Washington, DC 20231

7.  CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)

8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)  
a.  Computer Readable Form (CRF)  
b. Specification Sequence Listing on:  
i.  CD-ROM or CD-R (2 copies); or  
ii.  paper  
c.  Statements verifying identity of above copies

## ACCOMPANYING APPLICATION PARTS

9.  Assignment Papers (cover sheet & document(s))  
10.  37 CFR 3.73(b) Statement  Power of Attorney  
(when there is an assignee)  Attorney

11.  English Translation Document (if applicable)  
12.  Information Disclosure Statement (IDS)/PTO-1449  Copies of IDS Citations

13.  Preliminary Amendment

14.  Return Receipt Postcard (MPEP 503)  
(Should be specifically itemized)

15.  Certified Copy of Priority Document(s)  
(if foreign priority is claimed)

16.  Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.

17.  Other: .....

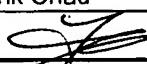
18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

 Continuation  Divisional  Continuation-in-part (CIP) of prior application No.: \_\_\_\_\_

Prior application information: Examiner \_\_\_\_\_ Group Art Unit: \_\_\_\_\_

For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

## 19. CORRESPONDENCE ADDRESS

<input type="checkbox"/> Customer Number or Bar Code Label	(Insert Customer No. or Attach bar code label here)			<input type="checkbox"/> or <input type="checkbox"/> Correspondence address below
Name	Frank Chau			
Address	F. Chau & Associates, LLP 1900 Hempstead Turnpike, Suite 501			
City	East Meadow	State	NY	Zip Code
Country	USA	Telephone	516-357-0091	Fax 516-357-0092
Name (Print/Type)	Frank Chau	Registration No. (Attorney/Agent)	34,136	
Signature				Date 11/26/03

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231.

19270 U.S. PTO 10/17/23 178 1263

16638  
112603

U.S. PTO

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# FEE TRANSMITTAL for FY 2003

Effective 01/01/2003. Patent fees are subject to annual revision.

 Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT

(\$)

## Complete if Known

Application Number	
Filing Date	November 26, 2003
First Named Inventor	Hyo-Hak NAM
Examiner Name	
Art Unit	
Attorney Docket No.	8071-50 (OPP030570US)

## METHOD OF PAYMENT (check all that apply)

Check  Credit card  Money Order  Other  None

 Deposit Account:

Deposit Account Number  
Deposit Account Name

The Commissioner is authorized to: (check all that apply)

Charge fee(s) indicated below  Credit any overpayments  
 Charge any additional fee(s) during the pendency of this application  
 Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.

## FEE CALCULATION

## 1. BASIC FILING FEE

Large Entity	Small Entity	Fee Code (\$)	Fee Code (\$)	Fee Description	Fee Paid
1001 750	2001 375	Utility filing fee		\$770.00	
1002 330	2002 165	Design filing fee			
1003 520	2003 260	Plant filing fee			
1004 750	2004 375	Reissue filing fee			
1005 160	2005 80	Provisional filing fee			
SUBTOTAL (1)		(\$)			

## 2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

Total Claims	Fee from Extra Claims below			Fee Paid
	Independent Claims	Multiple Dependent	Fee Code (\$)	
40	-20** = 20	x 18	= 360	
5	-3** = 2	x 86	= 172	
		290	=	

Large Entity	Small Entity	Fee Description
1202 18	2202 9	Claims in excess of 20
1201 84	2201 42	Independent claims in excess of 3
1203 280	2203 140	Multiple dependent claim, if not paid
1204 84	2204 42	** Reissue independent claims over original patent
1205 18	2205 9	** Reissue claims in excess of 20 and over original patent
SUBTOTAL (2)		(\$)

(\$)

\*\*or number previously paid, if greater; For Reissues, see above

## 3. ADDITIONAL FEES

Large Entity Small Entity

Fee Code (\$)	Fee (\$)	Fee Code (\$)	Fee (\$)	Fee Description	Fee Paid
1051 130	2051 65	Surcharge - late filing fee or oath			
1052 50	2052 25	Surcharge - late provisional filing fee or cover sheet			
1053 130	1053 130	Non-English specification			
1812 2,520	1812 2,520	For filing a request for ex parte reexamination			
1804 920*	1804 920*	Requesting publication of SIR prior to Examiner action			
1805 1,840*	1805 1,840*	Requesting publication of SIR after Examiner action			
1251 110	2251 55	Extension for reply within first month			
1252 410	2252 205	Extension for reply within second month			
1253 930	2253 465	Extension for reply within third month			
1254 1,450	2254 725	Extension for reply within fourth month			
1255 1,970	2255 985	Extension for reply within fifth month			
1401 320	2401 160	Notice of Appeal			
1402 320	2402 160	Filing a brief in support of an appeal			
1403 280	2403 140	Request for oral hearing			
1451 1,510	1451 1,510	Petition to institute a public use proceeding			
1452 110	2452 55	Petition to revive - unavoidable			
1453 1,300	2453 650	Petition to revive - unintentional			
1501 1,300	2501 650	Utility issue fee (or reissue)			
1502 470	2502 235	Design issue fee			
1503 630	2503 315	Plant issue fee			
1460 130	1460 130	Petitions to the Commissioner			
1807 50	1807 50	Processing fee under 37 CFR 1.17(q)			
1806 180	1806 180	Submission of Information Disclosure Stmt			
8021 40	8021 40	Recording each patent assignment per property (times number of properties)			
1809 750	2809 375	Filing a submission after final rejection (37 CFR 1.129(a))			
1810 750	2810 375	For each additional invention to be examined (37 CFR 1.129(b))			
1801 750	2801 375	Request for Continued Examination (RCE)			
1802 900	1802 900	Request for expedited examination of a design application			

Other fee (specify) \_\_\_\_\_

\*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$)

## SUBMITTED BY

(Complete if applicable)

Name (Print/Type)	Frank Chau	Registration No. (Attorney/Agent)	34,136	Telephone (516) 357-0091
Signature			Date	11/26/03

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Atty. Docket No. 8071-50 (OPP030570US)IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Mail Stop Patent Application  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

UTILITY APPLICATION FEE TRANSMITTAL

Sir:

Transmitted herewith for filing is the patent application of

Inventor(s) : Hyo-Hak NAM, Dong-Gyu KIM, Dong-Won LEE,  
Jung-Tae KANGFor: LIQUID CRYSTAL DISPLAY AND MANUFACTURING METHOD  
THEREOF

Enclosed are:

 23 page(s) of specification 1 page(s) of Abstract 8 page(s) of claims 19 sheets of drawings  formal  informal \_\_\_\_\_ page(s) of Declaration and Power of Attorney An Assignment of the invention to:

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CERTIFICATION UNDER 37 C.F.R. § 1.10

I hereby certify that this New Application Transmittal and the documents referred to as enclosed therein are being deposited with the United States Postal Service on this date November 26, 2003 in an envelope as "Express Mail Post Office to Addressee" Mail Label Number EV413369400US addressed to: Mail Stop Patent Application, Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450.

Frank Chau  
(Type or print name of person mailing paper)

  
(Signature of person mailing paper)

[ ] This application claims the benefit under 35 U.S.C.  
§119(e) of U.S. Provisional Application(s) No(s)..:

APPLICATION NO(S) .:

FILING DATE

\_\_\_\_/\_\_\_\_\_  
\_\_\_\_/\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

[X] Certified copy of application

<u>Country</u>	<u>Appln. No.</u>	<u>Filed</u>
Korea	2002-0074477	27 November 2002
Korea	2002-0077305	6 December 2002
Korea	2003-0049025	18 July 2003

from which priority under Title 35 United States Code, § 119  
is claimed

[ ] is enclosed.

[X] will follow.

CALCULATION OF UTILITY APPLICATION FEE

<u>For</u>	<u>Number Filed</u>	<u>Number Extra</u>	<u>Rate</u>	<u>Basic Fee</u>
Total				\$770.00
Claims*	40	-20 = 20	x \$ 18.00	\$360.00
Independent				
Claims	5	- 3 = 2	x \$ 86.00	\$172.00
Multiple	[ ] yes	Add'l. Fee	\$290.00	\$
Dependent				
Claims	[ ] no	Add'l. Fee	None	= \$
				TOTAL <u>\$1,302.00</u>

[ ] Verified Statement of "Small Entity" Status Under 37  
C.F.R. § 1.27. Reduced fees under 37 C.F.R. § 1.9(f)  
(50% of total) paid herewith \$\_\_\_\_\_.

\*Includes all independent and single dependent claims and all claims referred to in multiple claims.  
See 37 C.F.R. § 1.75(c).

[ ] Credit Card Payment Form PTO-2038 for authorization to charge our American Express in the amount of \$ .00 is enclosed for recording the attached Assignment.

[ ] Credit Card Payment Form PTO-2038 for authorization to charge our American Express in the amount of \$ .00 is enclosed to cover the filing fee.

[ ] Charge fee to Deposit Account No. \_\_\_\_\_. Order No. \_\_\_\_\_. TWO (2) COPIES OF THIS SHEET ARE ENCLOSED.

[ ] Please charge any deficiency as well as any other fee(s) which may become due under 37 C.F.R. § 1.16 and 1.17, at any time during the pendency of this application, or credit any overpayment of such fee(s) to Deposit Account No. \_\_\_\_\_. Also, in the event any extensions of time for responding are required for the pending application(s), please treat this paper as a petition to extend the time as required and charge Deposit Account No. 50-0679 therefor. TWO (2) COPIES OF THIS SHEET ARE ENCLOSED.

Date: 11/26/03

  
\_\_\_\_\_  
SIGNATURE OF ATTORNEY

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FC/pg